ICF-C10W

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
AUS Model
Italy Model

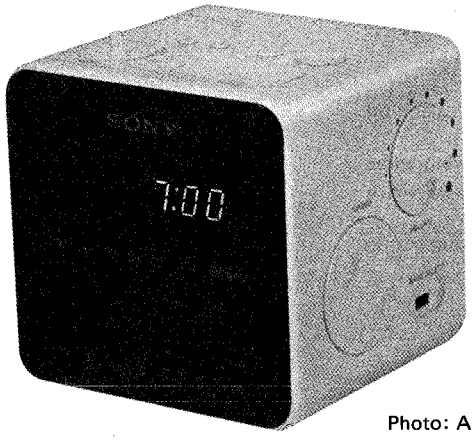


Photo: AEP model
(WHITE type)

This SERVICE MANUAL includes supplement No. 1 to No. 5.
supplement No. 1 9-950-941-81
No. 2 9-950-941-82
No. 3 9-950-941-83
No. 4 9-950-941-84
No. 5 9-950-941-85

SPECIFICATIONS

Frequency range: FM 87.5–108 MHz (US, Canadian, E1, E2, AUS)
87.6–107 MHz (AEP)
AM 530–1,605 kHz (US, Canadian, AEP, E1, E2, AUS)
526.5–1,606.5 kHz (Italy)

Antennas: FM: Wire antenna
AM: Built-in ferrite bar antenna

Speaker: Approx. 6.6 cm (2½ inches) dia.

Power output: US, Canadian, E1, E2, AUS Model . . . 250 mW (at 10% harmonic distortion)
AEP, Italy Model . . . . 400 mW (at 10% harmonic distortion)

Power requirements: US, Canadian, E2 Model . . . 120 V ac, 60 Hz
AEP, Italy Model . . . . 220 V ac, 50 Hz
E1 Model ..... 110-120/220-240 V, 50/60 Hz
AUS Model . . . 240 V ac, 50 Hz
For the power backup function: 9 V dc, one battery, IEC designation 6F22

Power consumption: 5 W ac (2.5 W ac when only the clock is in operation)

Dimensions: Approx. 121 x 118 x 116 mm (w/h/d) ($4^{7}/_{8} \times 4^{3}/_{4} \times 4^{5}/_{8}$ inches) incl. projecting parts and controls

Weight: US, Canadian, E2 Model . . . Approx. 800 g (1 lb 13 oz)
E1, AEP, Italy, AUS Model . . . Approx. 910 g (2 lb) incl. battery

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

FM/AM DIGITAL CLOCK RADIO

SONY®

TR

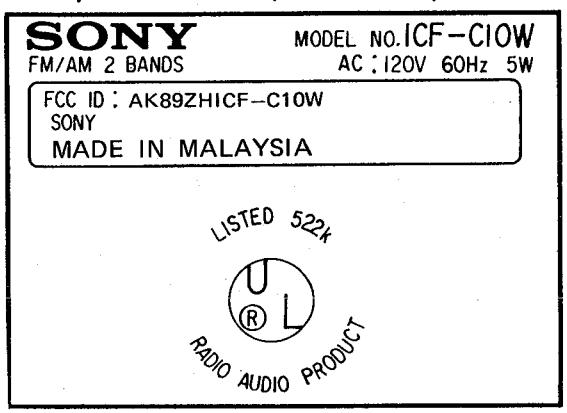
FEATURES

- High quality FM/AM radio combined with an electronic digital alarm clock and sleep timer.
- Easy-to-read blue fluorescent display of time and AM/PM indication. (AM/PM is not indicated in AEP model.)
- Functions of each section are grouped on an appropriate panel.
- Choice of awakening to radio or buzzer alarm.
- 24-hour alarm preset system automatically turns alarm on at same time eacy day.
- Dream bar, feather light to operate, and having three functions; snooze alarm, sleep timer off, and instant alarm time readout.
- Power backup function to keep the clock operating during a power failure, using an optional 9 V battery.

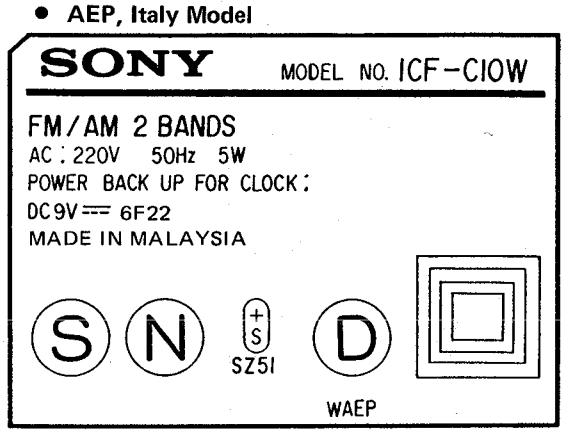
MODEL IDENTIFICATIONS

— Model No. Label —

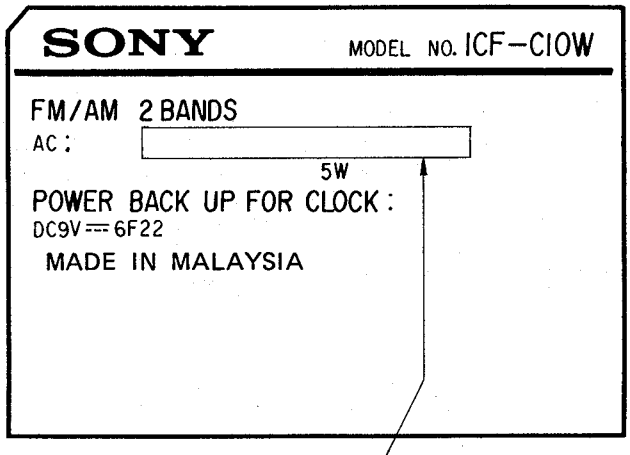
- **US, Canadian Model (carved rear lid)**



- **AEP, Italy Model**



- **E, AUS Model**



E1 Model: 110—120V/220-240 V 50/60Hz
E2 Model: 120V 60Hz
AUS Model: 240V 50Hz

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

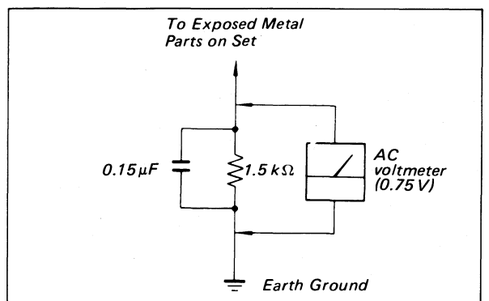
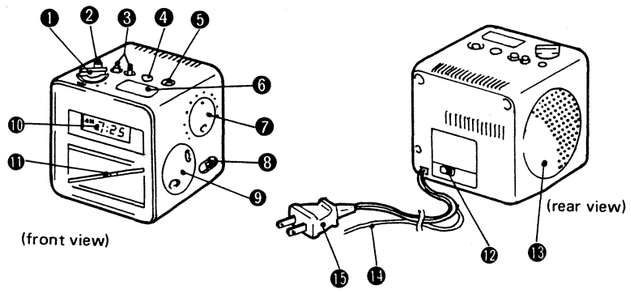


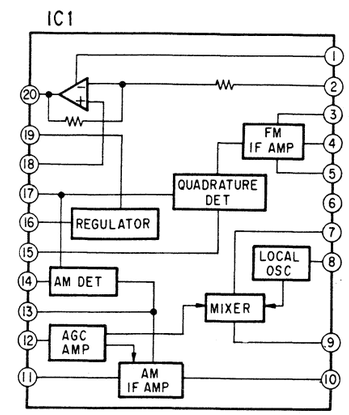
Fig. A. Using an AC voltmeter to check AC leakage.

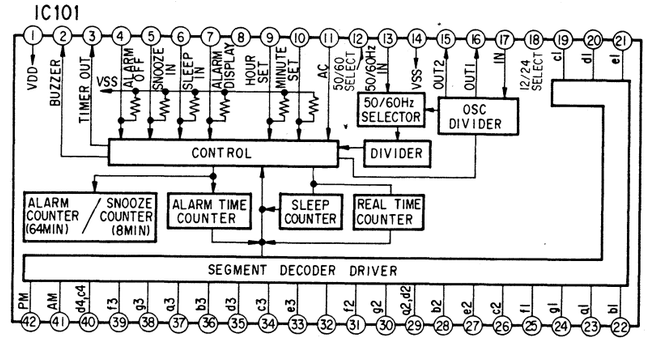
LOCATION AND FUNCTION OF CONTROLS



❶ **Function selector**
Select a position as required.
TIME SET: for setting the current time.
ALARM SET: for setting the alarm time.
OFF: for turning off the radio manually or automatically.
ON: for turning on the radio manually.
RADIO: for radio alarm.
BUZZER: for buzzer alarm, or for radio and buzzer alarm.
❷ **PUSH button:** This button must be depressed in order to put the function selector in the TIME SET position. To set the time, hold this button down while turning the function selector to TIME SET.
❸ **Time set buttons [H] (hour) [M] (minute):** Each time the H or M button is pressed, the hour or minute digit advances by one. While the H or M button is kept pressed, the clock stops operating.
❹ **SLEEP timer button:** Press the button to set the sleep timer.
❺ **ALARM RESET button:** Press to turn off the alarm sound manually.
❻ **DREAM BAR:** Lightly press for an instant readout of the alarm time, for operating the snooze alarm function or for turning off the radio before the preset time of the sleep timer.
❼ **VOLUME control:** Turn clockwise for more volume.
❽ **BAND selector:** Choose the desired band: FM or AM.
❾ **TUNING knob:** Turn to select the frequency of the desired station.
❿ **Time display:** When the function selector is set to ALARM SET, or when the DREAM BAR is pressed, the display on the indicator shows alarm time with an "Alarm" marking. When the SLEEP button is pressed, the display shown is the length of time the radio will keep playing (up to 60 minutes). In other cases, the display is current a.m. or p.m. time.
⓫ **Dial scale and dial pointer**
⓬ **Time display brightness switch [BRIGHT]:** Set this switch to H to brighten the figures on the display and to L to dim.
⓭ **Speaker**
⓮ **FM wire antenna:** Used for FM reception.
⓯ **AC power cord**

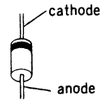
• BLOCK DIAGRAMS OF ICs



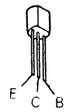


• SEMICONDUCTOR LEAD LAYOUTS

1S1555
RD5.1E-B
10E2

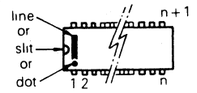


2SC1674
2SC2001



2SC1675
2SC710-13

LM1868N
MSM5550RSK
MSM5550IRS



(Top view)

***NOTE ON REPLACING IC101**

When replacing IC101, choose the capacitance value of C108 by the procedure follow.

① Set the certain time under the normal operation.
② Operate the set for two hours with the Back-up power plugging out on the supposition that the power stoppage.
③ When plugging in again two hours later, the aberration of clock display should be within ±5% (±3 minutes).
④ If necessary, change the capacitance value of C108.

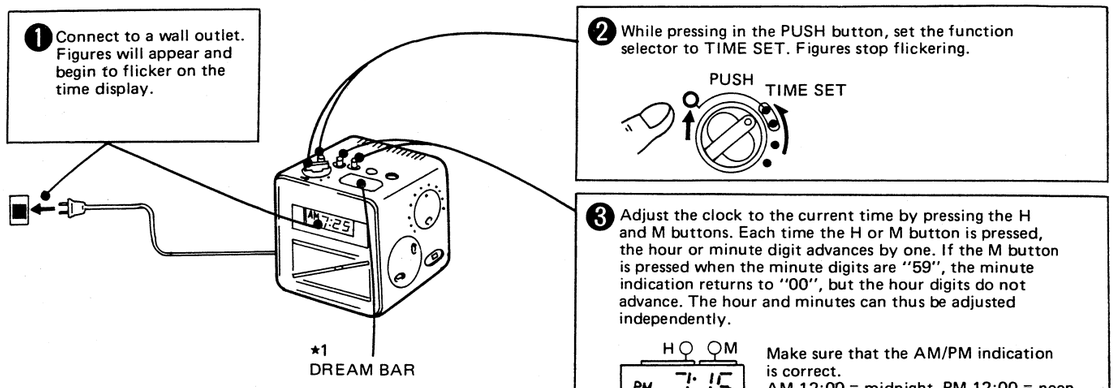
TIME	CAPACITANCE VALUE
faster ↑	small (0 PF) ↑
slower ↓	large (10 PF) ↓

ICF-C10W

HANDLING DESCRIPTION

HOW TO SET THE CLOCK

The numbers in the illustration refer to the sequence of operations.


1 Connect to a wall outlet. Figures will appear and begin to flicker on the time display.
2 While pressing in the PUSH button, set the function selector to TIME SET. Figures stop flickering.
PUSH
TIME SET
3 Adjust the clock to the current time by pressing the H and M buttons. Each time the H or M button is pressed, the hour or minute digit advances by one. If the M button is pressed when the minute digits are "59", the minute indication returns to "00", but the hour digits do not advance. The hour and minutes can thus be adjusted independently.
H M
PM 7:15
Make sure that the AM/PM indication is correct.
AM 12:00 = midnight, PM 12:00 = noon
(Not necessary to AEP model.)
*1
DREAM BAR

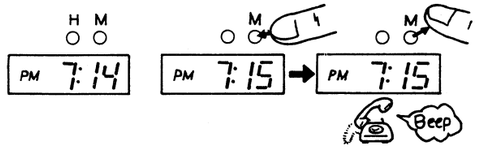
Note: Make sure not to press the DREAM BAR while adjusting the time indication. Otherwise the time display will show the alarm time with an "Alarm" marking.

• After setting the time, be sure to set the function selector to BUZZER, RADIO. ON or OFF. If the selector is set to TIME SET or ALARM SET, accidental pushing of the time set buttons will change the current or alarm time display.

WARNING
When the power backup battery is not inserted.
If the ac power supply is interrupted, even though the interruption might have been very short, the time display will blink (when the function selector is set to a position other than ALARM SET). This shows the time and alarm setting are completely cancelled. In this case, be sure to reset the time and the alarm setting.

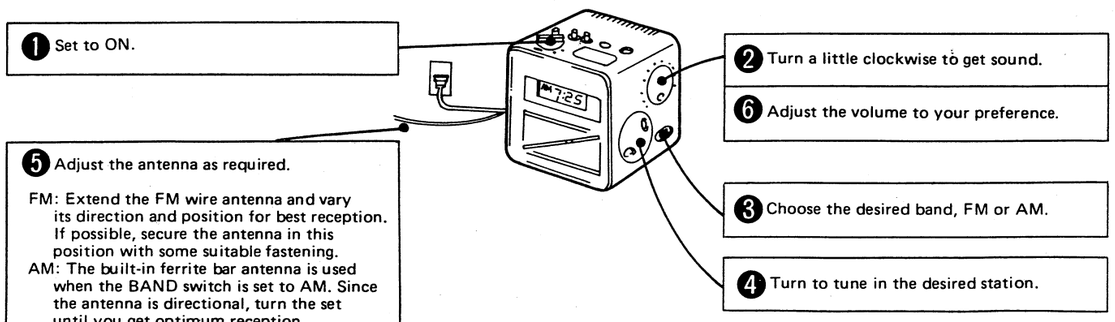
Zero second adjustment
If you want to adjust the time exactly to the second with a radio or telephone time signal, proceed as in the following example.

Example: Several minutes in anticipation of a 7:15 p.m. time signal:
❶ Adjust the time indication to PM 7:14 as described before. Leave the function selector set to TIME SET during the steps ❷ and ❸.
❷ press the M button once and keep it pressed. The time display changes to PM 7:15, and the clock remains at 7 o'clock 15 minutes and 00 seconds while the button is kept pressed.
❸ Release the M button simultaneously with the radio or telephone time signal.
When you release the M button, the clock will then begin to operate, showing the precise time of day.



RADIO OPERATION

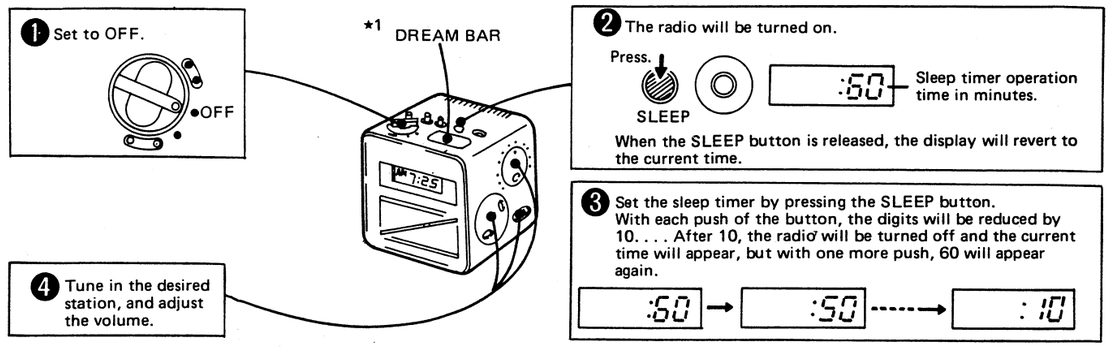
The numbers in the illustration refer to the sequence of operations.


1 Set to ON.
2 Turn a little clockwise to get sound.
6 Adjust the volume to your preference.
5 Adjust the antenna as required.
FM: Extend the FM wire antenna and vary its direction and position for best reception. If possible, secure the antenna in this position with some suitable fastening.
AM: The built-in ferrite bar antenna is used when the BAND switch is set to AM. Since the antenna is directional, turn the set until you get optimum reception.
3 Choose the desired band, FM or AM.
4 Turn to tune in the desired station.

• To turn off the radio, set the function selector to OFF.

HOW TO USE THE SLEEP TIMER

The numbers in the illustration refer to the sequence of opeations.

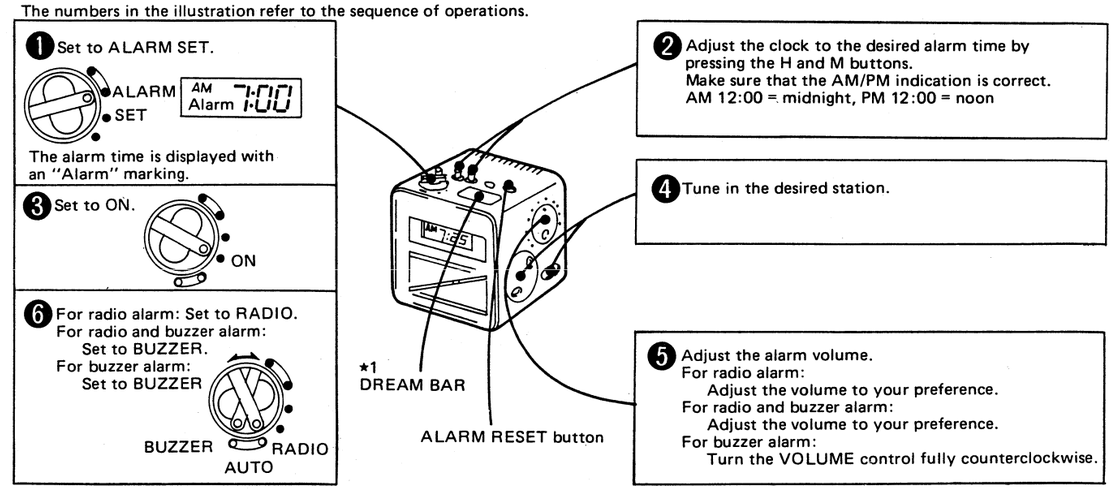

1 Set to OFF.
OFF
*1
DREAM BAR
2 The radio will be turned on.
Press.
SLEEP
:60
Sleep timer operation time in minutes.
When the SLEEP button is released, the display will revert to the current time.
3 Set the sleep timer by pressing the SLEEP button.
With each push of the button, the digits will be reduced by 10. . . . After 10, the radio will be turned off and the current time will appear, but with one more push, 60 will appear again.
:60
:50
:10
4 Tune in the desired station, and adjust the volume.

The radio will be turned off automatically after the preset time has elapsed.
To turn off the radio before the preset time, press the DREAM BAR lightly (this cancels the "sleep" function). *1

Note: Make sure not to set the function selector to ALARM SET during sleep timer operation. Otherwise the sleep timer will be cancelled.

HOW TO SET THE ALARM (RADIO OR BUZZER)

The numbers in the illustration refer to the sequence of operations.


1 Set to ALARM SET.
ALARM
SET
AM
Alarm 7:00
The alarm time is displayed with an "Alarm" marking.
2 Adjust the clock to the desired alarm time by pressing the H and M buttons.
Make sure that the AM/PM indication is correct.
AM 12:00 = midnight, PM 12:00 = noon
3 Set to ON.
ON
4 Tune in the desired station.
6 For radio alarm: Set to RADIO.
For radio and buzzer alarm:
Set to BUZZER.
For buzzer alarm:
Set to BUZZER
BUZZER
RADIO
AUTO
*1
DREAM BAR
ALARM RESET button
5 Adjust the alarm volume.
For radio alarm:
Adjust the volume to your preference.
For radio and buzzer alarm:
Adjust the volume to your preference.
For buzzer alarm:
Turn the VOLUME control fully counterclockwise.

The radio and/or buzzer sound will come on automatically at the preset time, and will shut itself off automatically after about 64 minutes, unless it is shut off manually.

To turn off the alarm sound manually, press the ALARM RESET button. At the same time of the next day, the alarm sound will come on again.

SNOOZE ALARM FUNCTION

If you awake to the radio and/or buzzer in the morning but want to doze for a few more minutes, just lightly press the DREAM BAR. The radio and/or buzzer will be silenced, but will automatically come on again after about eight minutes. If you want to doze more, press the bar again, You can repeat this snooze function as many times as you like. *1

USE OF SLEEP TIMER AFTER SETTING ALARM

With ICF-C10W, you can fall asleep to music, knowing the radio will turn itself off at the preset time and you will be awakened by the alarm sound at your preset alarm time. For details of each operation and notes, refer to the specified sections described before.

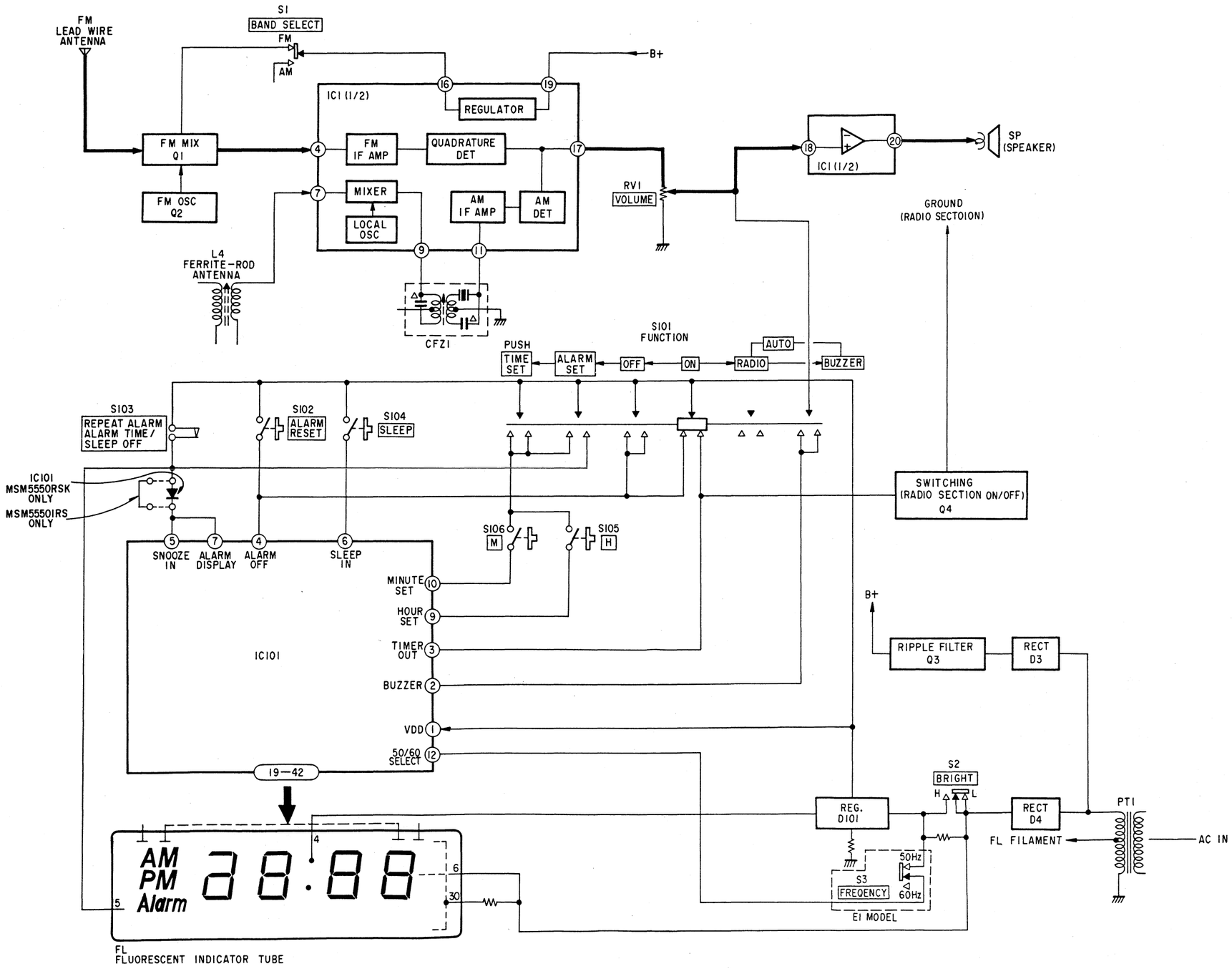
❶ Set the function selector to ALARM SET, and adjust the time display to your wake-up time with the H and M buttons.
❷ Set the function selector to BUZZER or RADIO, as required.
❸ Set the sleep timer by pressing the SLEEP button.
❹ Tune in the desired station and adjust the volume.

★ Panel designation differs according to the model.

*1 DREAM BAR . . . . . US, Canadian Model
REPEAT ALARM . . AEP, E1, E2, AUS Model
SNOOZE BAR . . . . Italy Model

SECTION 1
OUTLINE

BLOCK DIAGRAM



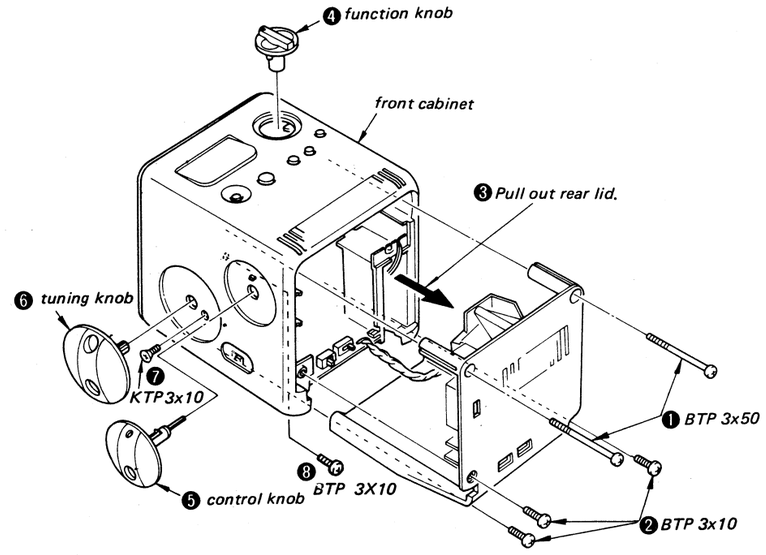
ICF-C10W

SECTION 2
DISASSEMBLY

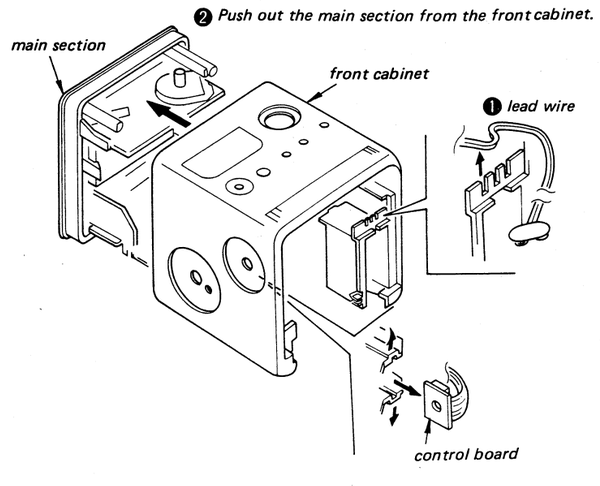
2-1. REMOVAL

- Follow the disassembly procedure in the numerical order given.

REAR LID
(❹ – ❽ are for removing the front section.)

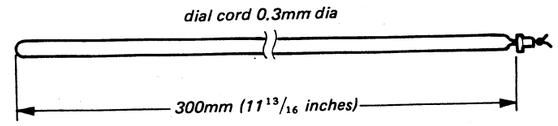


FRONT CABINET



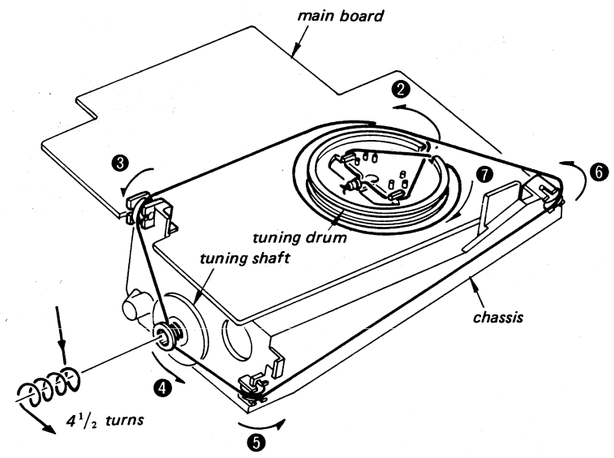
2-2. DIAL CORD STRINGING

1) Dial Cord Preparation



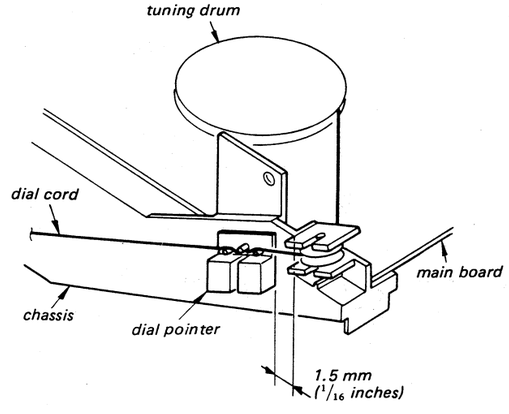
2) Dial Cord Stringing

❶ *Turn the tuning drum fully counter-clockwise.*
String the dial cord in the numerical order given.



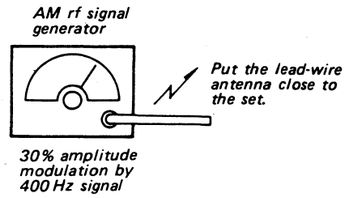
3) Dial Pointer Setting

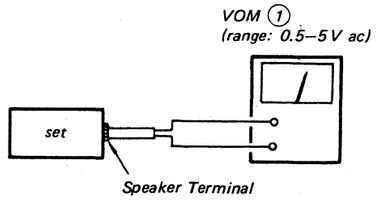
Turn the dial drum fully counterclockwise



SECTION 3
ADJUSTMENTS

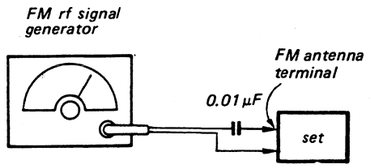
AM





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

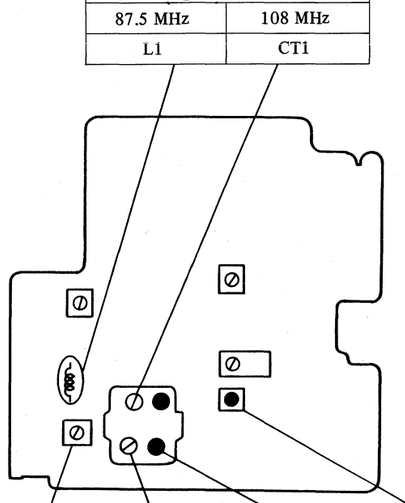
FM



Carrier frequency: 98 MHz
Modulation: 1 kHz, 75 kHz deviation (100 %)

Italy model

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading to VOM (1).	
87.5 MHz	108 MHz
L1	CT1



L3	CT2
87.5 MHz	108 MHz
Adjust for a maximum reading on VOM (1).	
FM FREQUENCY COVERAGE ADJUSTMENT	

CT4	L5
1606.5 kHz	526.5 kHz
Adjust for a maximum reading on VOM (1).	
AM FREQUENCY COVERAGE ADJUSTMENT	

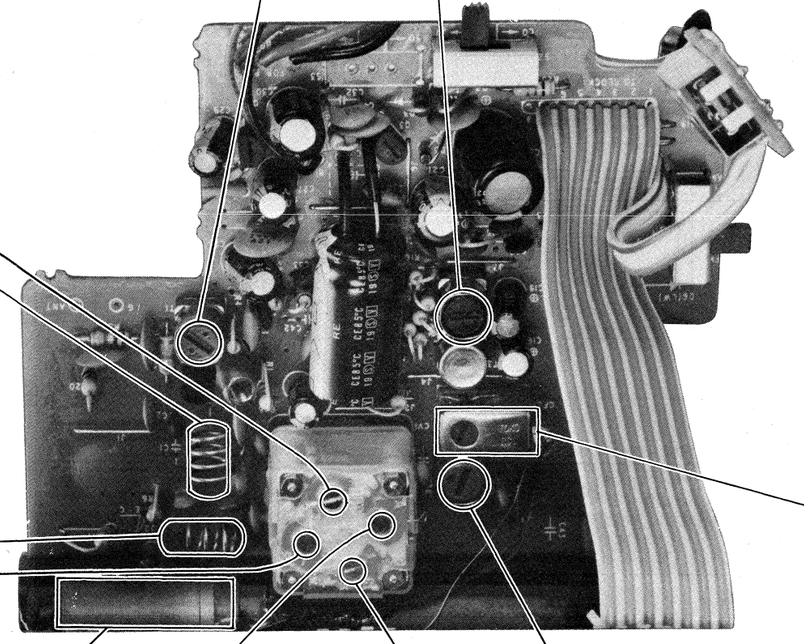
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading to VOM (1).	
108.5 MHz	CT1
87.1 MHz ((87.35 MHz))	L1

(( )): AEP model
No mark: US, Canadian, E, AUS model

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM (1).	
87.1 MHz ((87.35 MHz))	L3
108.5 MHz	CT2

(( )): AEP model
No mark: US, Canadian, E, AUS model

FM IF ALIGNMENT 1 (10.7 MHz with modulation)	
Adjust for a maximum reading on VOM (1).	
T1	T2



AM IF ALIGNMENT	
Adjust for a maximum reading on VOM (1).	
CFZ 1	455kHz

L4	CT3
620kHz	1400kHz
Adjust for a maximum reading on VOM (1).	
AM TRACKING ADJUSTMENT	

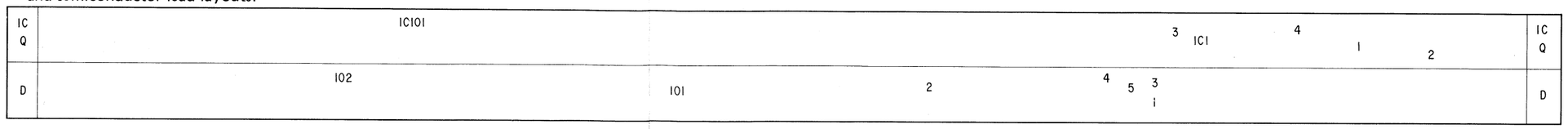
CT4	L5
1680kHz	520kHz
Adjust for a maximum reading on VOM (1).	
AM FREQUENCY COVERAGE ADJUSTMENT	

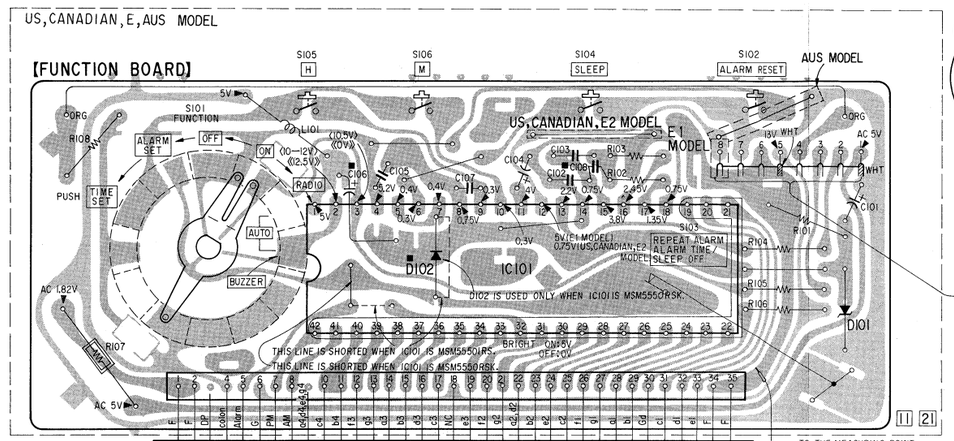
US, Canadian, AEP, E, AUS model

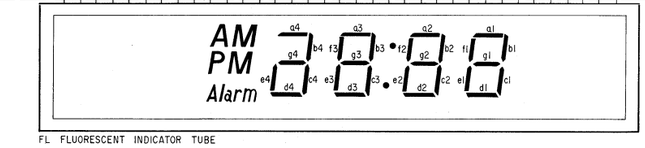
SECTION 4
DIAGRAMS

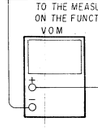
4-1. MOUNTING DIAGRAM
– Conductor Side –

- Refer to page 15 for the block diagrams of ICs and semiconductor lead layouts.

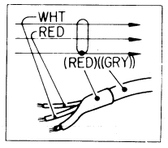


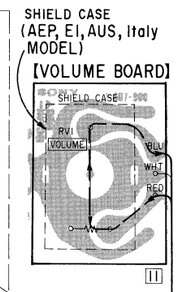


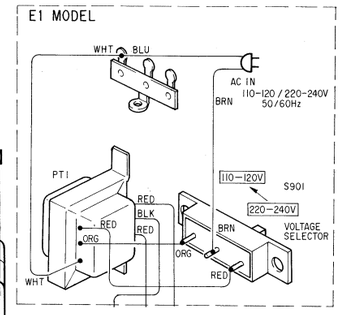


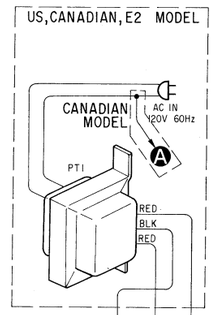


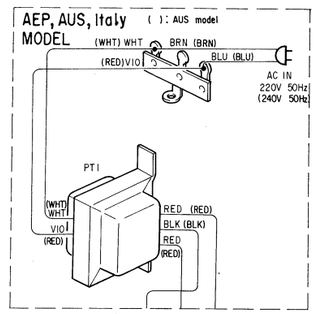
- Color code of sleeving over the end of the jacket.

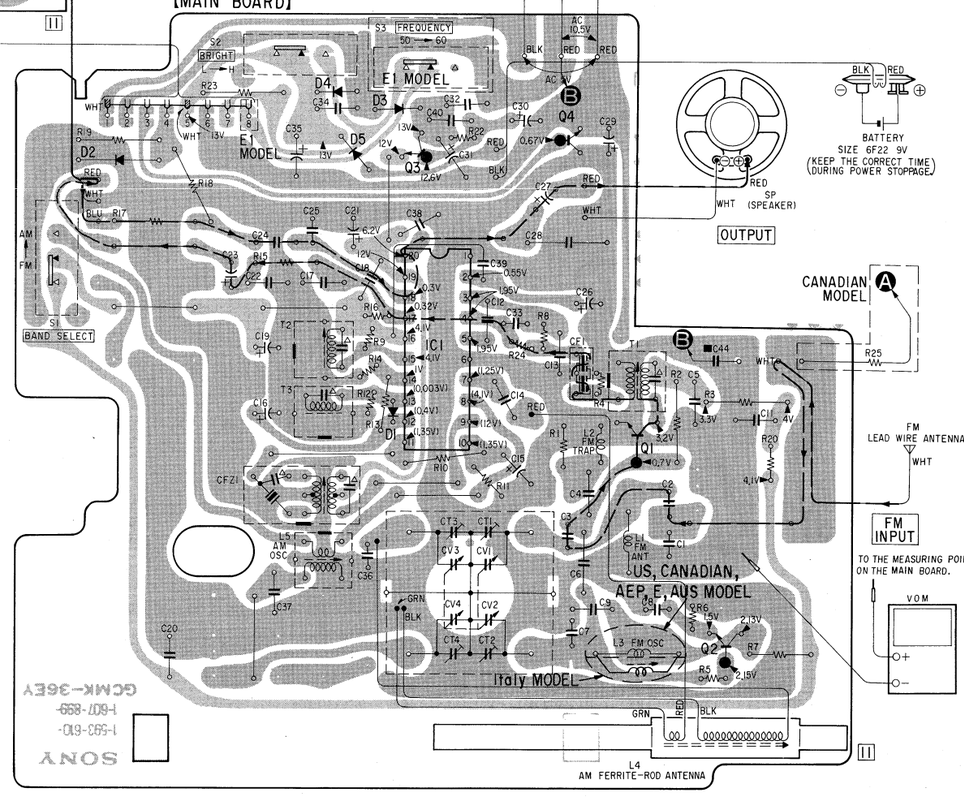






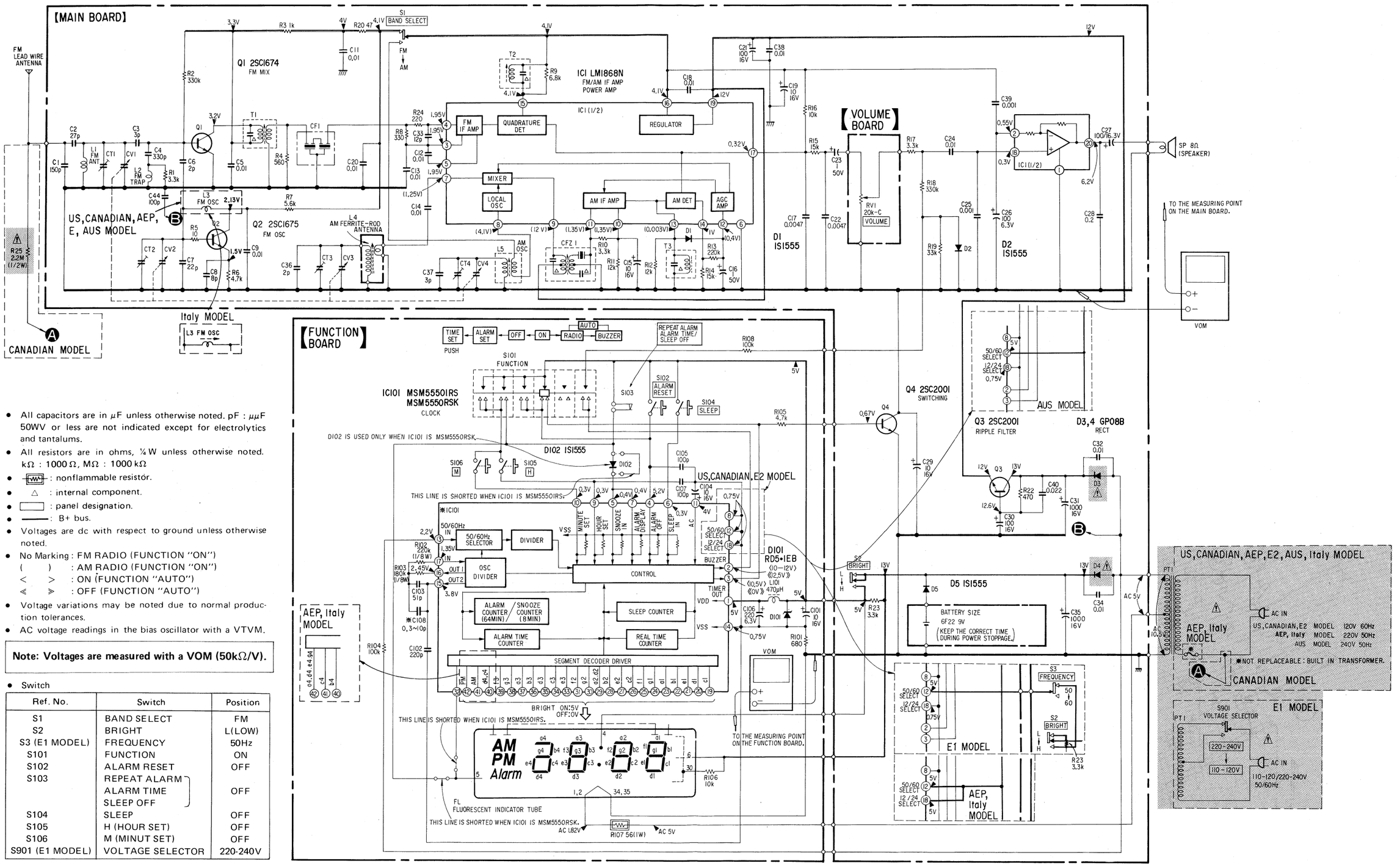






- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]— : indicates side identified with part number.
- ▲ : nonflammable resistor.
- ▨ : B+ pattern
- ▬▶▬ : signal path

4-2. SCHEMATIC DIAGRAM



- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ⚠ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- ——: B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- No Marking : FM RADIO (FUNCTION "ON")
  ( ) : AM RADIO (FUNCTION "ON")
  < > : ON (FUNCTION "AUTO")
  ⩽ ⩾ : OFF (FUNCTION "AUTO")
- Voltage variations may be noted due to normal production tolerances.
- AC voltage readings in the bias oscillator with a VTVM.

Note: Voltages are measured with a VOM (50kΩ/V).

- Switch

Ref. No.	Switch	Position
S1	BAND SELECT	FM
S2	BRIGHT	L(LOW)
S3 (E1 MODEL)	FREQUENCY	50Hz
S101	FUNCTION	ON
S102	ALARM RESET	OFF
S103	REPEAT ALARM	
	ALARM TIME	OFF
	SLEEP OFF	
S104	SLEEP	OFF
S105	H (HOUR SET)	OFF
S106	M (MINUT SET)	OFF
S901 (E1 MODEL)	VOLTAGE SELECTOR	220-240V

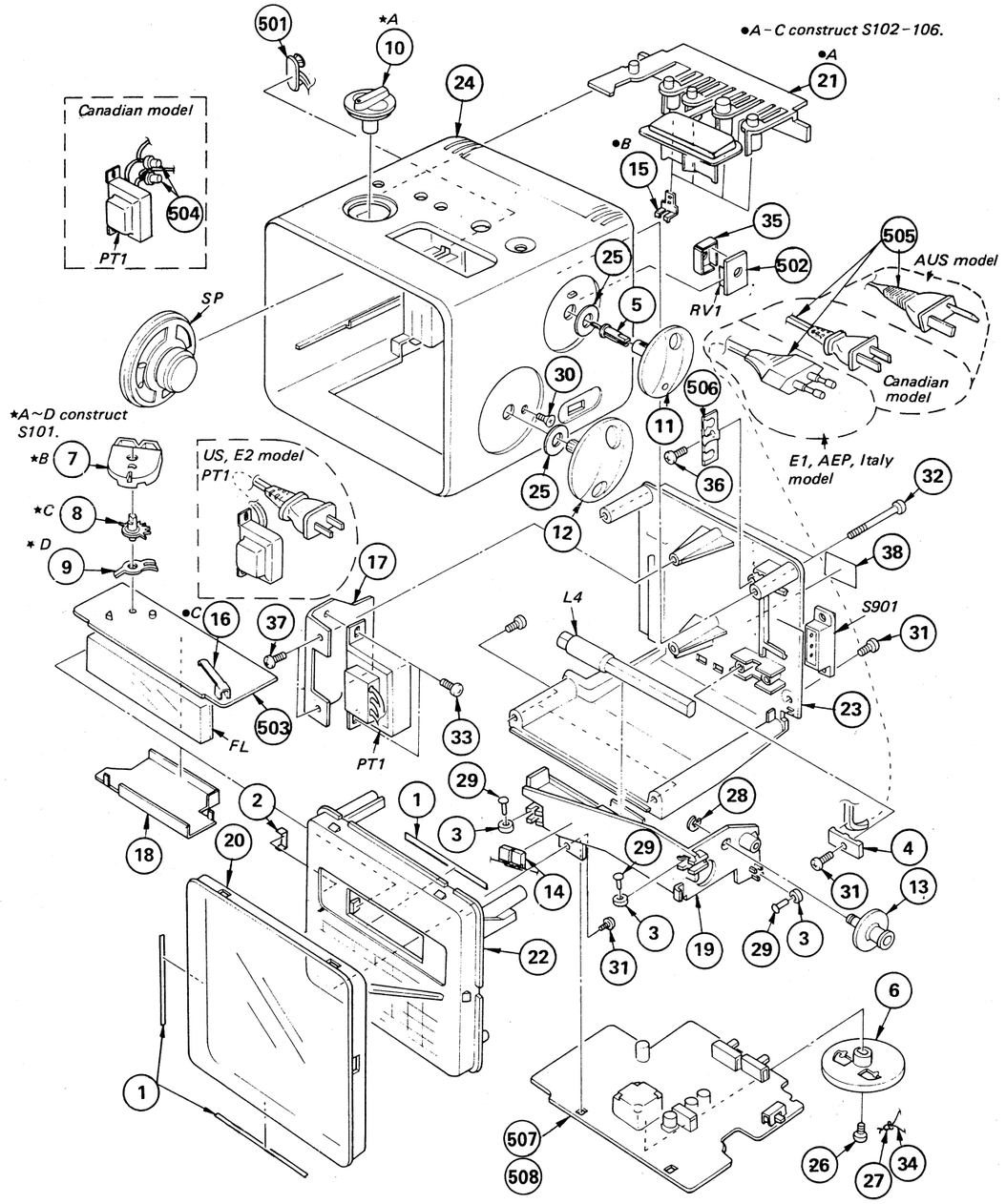
※ When replacing IC101 refer to the page 16, because the capacitance value of C108 is determined by IC101.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.



No.	Part No.	Description	Remarks
1	2-242-926-01	CUSHION, SIDE PLATE	
2	3-831-441-11	CUSHION (25X5X0.3)	
3	3-834-636-00	PULLEY	
4	*3-884-408-00	STOPPER, CORD	
5	3-886-531-00	SHAFT, CONTROL	
6	3-887-128-00	DRUM, TUNING	
7	3-888-205-00	HOLDER, FUNCTION	
8	3-888-206-00	SHAFT, CLICK	
9	3-888-207-00	PLATE, CONTACT	
10	3-985-678-01	(WHITE)....KNOB, FUNCTION	
	3-985-678-11	(SILVER)...KNOB, FUNCTION	
	3-985-678-21	(RED).....KNOB, FUNCTION	
	3-985-678-31	(BLACK)....KNOB, FUNCTION	
	3-985-678-41	(BLUE).....KNOB, FUNCTION	
	3-985-678-51	(PINK).....KNOB, FUNCTION	
11	3-985-680-01	(WHITE)....KNOB, CONTROL	
	3-985-680-11	(SILVER)...KNOB, CONTROL	
	3-985-680-21	(RED).....KNOB, CONTROL	
	3-985-680-31	(BLACK)....KNOB, CONTROL	
	3-985-680-41	(BLUE).....KNOB, CONTROL	
	3-985-680-51	(PINK).....KNOB, CONTROL	
12	3-985-679-01	(WHITE)....KNOB, TUNING	
	3-985-679-11	(SILVER)...KNOB, TUNING	
	3-985-679-21	(RED).....KNOB, TUNING	
	3-985-679-31	(BLACK)....KNOB, TUNING	
	3-985-679-41	(BLUE).....KNOB, TUNING	
	3-985-679-51	(PINK).....KNOB, TUNING	
13	3-985-526-00	SHAFT, TUNING	
14	3-985-527-00	POINTER	
15	3-985-528-00	SPRING	
16	3-985-529-00	SPRING	
17	*3-985-530-00	BRACKET, TRANSFORMER	
18	*3-985-532-00	PLATE (C), SHIELD	
19	3-985-533-00	CHASSIS	
20	3-985-534-00	PLATE, TRANSPARENT	
21	3-985-681-01	(WHITE)....BUTTON, CONTROL	
	3-985-681-11	(SILVER)...BUTTON, CONTROL	
	3-985-681-21	(RED).....BUTTON, CONTROL	
	3-985-681-31	(BLACK)....BUTTON, CONTROL	
	3-985-681-41	(BLUE).....BUTTON, CONTROL	
	3-985-681-51	(PINK).....BUTTON, CONTROL	
22	3-985-536-01	(US,Canadian,E1/2,AUS)...SCALE, DIAL	
	3-985-536-41	(AEP,Italy).....SCALE, DIAL	

No.	Part No.	Description	Remarks
23	3-985-537-01	(WHITE:US,Canadian,AUS)...LID, REAR	
	3-985-617-85	(WHITE:E).....LID, REAR	
	3-985-682-01	(WHITE:Italy,AEP)....LID, REAR	
	3-985-537-31	(SILVER:E2).....LID, REAR	
	3-985-537-61	(SILVER:E1).....LID, REAR	
	3-985-682-11	(SILVER:Italy,AEP)...LID, REAR	
	3-985-537-15	(RED:AEP).....LID, REAR	
	3-985-537-25	(RED:Canadian).....LID, REAR	
	3-985-617-95	(RED:E).....LID, REAR	
	3-985-682-21	(RED:US,Italy,AUS)...LID, REAR	
	3-985-682-31	(BLACK)....LID, REAR	
	3-985-682-41	(BLUE).....LID, REAR	
	3-985-682-51	(PINK).....LID, REAR	
24	3-985-538-01	(WHITE:US,Canadian)...CABINET (MAIN)	
	3-985-538-95	(WHITE:AUS,E).....CABINET (MAIN)	
	3-985-685-01	(WHITE:Italy,AEP).....CABINET (MAIN)	
	3-985-538-91	(SILVER:E1/2).....CABINET (MAIN)	
	3-985-685-11	(SILVER:Italy,AEP)....CABINET (MAIN)	
	3-985-538-25	(RED:Canadian).....CABINET (MAIN)	
	3-985-538-35	(RED:AEP).....CABINET (MAIN)	
	3-985-538-85	(RED:E).....CABINET (MAIN)	
	3-985-685-21	(RED:US,Italy,AUS)....CABINET (MAIN)	
	3-985-685-31	(BLACK).....CABINET (MAIN)	
	3-985-685-41	(BLUE).....CABINET (MAIN)	
	3-985-685-51	(PINK).....CABINET (MAIN)	
25	3-985-625-00	WASHER, KNOB	
26	7-621-770-87	SCREW +P 2.6X5	
27	*7-623-605-01	EYELET, 1.3X2.5	
28	7-624-108-04	STOP RING 4.0, TYPE -E	
29	7-625-712-80	RIVET 2X7	
30	7-685-247-14	SCREW +KTP 3X10 TYPE2 NON-SLIT	
31	7-685-547-14	SCREW +BTP 3X10 TYPE2 N-S	
32	3-844-665-00	SCREW, REAR COVER	
33	7-685-750-01	SCREW +PTT 3X5 (S)	
34	9-911-825-32	STRING, DIAL	
35	*3-985-607-00	CASE, SHIELD	
36	7-685-145-14	SCREW +BTP 3X6 TYPE2 N-S	
37	7-685-549-14	SCREW +BTP 3X14	
38	3-985-601-01	(E1)....LABEL, MODEL NUMBER	
	3-985-602-01	(E2)....LABEL, MODEL NUMBER	
	3-985-603-11	(AEP,Italy)....LABEL, MODEL NUMBER	
	3-985-604-11	(AUS)...LABEL, MODEL NUMBER	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-535-253-00	SNAP, BATTERY			
502	*1-607-900-00	PC BOARD, VOLUME			
503	*1-607-901-00	(FOR 12H/US,Canadian,E1/2,AUS) ...PC BOARD, FUNCTION			
	*1-608-139-00	(FOR 24H/AEP,Italy) ...PC BOARD, FUNCTION			
504	⚠1-535-506-00	(Canadian)...CONNECTION PRESS TERMINAL			
505	⚠1-551-815-00	(AUS).....CORD, POWER			
	⚠1-551-949-00	(Canadian).....CORD, POWER			
	⚠1-551-958-00	(E1,AEP,Italy)...CORD, POWER			
506	⚠1-536-401-XX	(AUS,E1,AEP,Italy)...C-TYPE 1L1 LUG TERMINAL STRIP			
507	*A-3660-381-A	(US,Canadian,E2,AEP)..MOUNTED PCB, MAIN			
	*A-3660-384-A	(E1).....MOUNTED PCB, MAIN			
	*A-3660-411-A	(AUS).....MOUNTED PCB, MAIN			
	*A-3660-647-A	(Italy).....MOUNTED PCB, MAIN			
508	*1-607-899-00	(Italy)....PC BOARD, MAIN			
C1	1-101-361-00	CERAMIC	150PF	5%	50V
C2	1-102-961-00	CERAMIC	27PF	5%	50V
C3	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C4	1-102-820-00	CERAMIC	330PF	5%	50V
C5	1-101-004-00	CERAMIC	0.01MF		50V
C6	1-102-935-00	CERAMIC	2PF	0.25PF	50V
C7	1-102-641-00	CERAMIC	22PF	5%	50V
C8	1-102-945-00	CERAMIC	8PF	1PF	50V
C9	1-161-055-00	CERAMIC	0.022MF	10%	25V
C11	1-101-004-00	CERAMIC	0.01MF		50V
C12	1-161-013-00	CERAMIC	0.01MF	10%	25V
C13	1-161-013-00	CERAMIC	0.01MF	10%	25V
C14	1-101-004-00	CERAMIC	0.01MF		50V
C15	1-123-356-00	ELECT	10MF	20%	16V
C16	1-123-380-00	ELECT	1MF	20%	50V
C17	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C18	1-161-013-00	CERAMIC	0.01MF	10%	25V
C19	1-123-356-00	ELECT	10MF	20%	16V
C20	1-101-004-00	CERAMIC	0.01MF		50V
C21	1-123-333-00	ELECT	100MF	20%	16V
C22	1-161-047-00	CERAMIC	0.0047MF	10%	25V
C23	1-123-380-00	ELECT	1MF	20%	50V
C24	1-161-013-00	CERAMIC	0.01MF	10%	25V
C25	1-161-039-00	CERAMIC	0.001MF	10%	25V
C26	1-123-307-00	ELECT	100MF	20%	6.3V
C27	1-123-307-00	ELECT	100MF	20%	6.3V
C28	1-101-798-00	CERAMIC	0.2MF		12V
C29	1-123-356-00	ELECT	10MF	20%	16V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C30	1-123-333-00	ELECT	100MF	20%	16V
C31	1-123-324-00	ELECT	1000MF	20%	16V
C32	1-101-004-00	CERAMIC	0.01MF		50V
C33	1-102-949-00	CERAMIC	12PF	5%	50V
C34	1-101-004-00	CERAMIC	0.01MF		50V
C35	1-123-324-00	ELECT	1000MF	20%	16V
C36	1-102-935-00	CERAMIC	2PF	0.25PF	50V
C37	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C38	1-101-004-00	CERAMIC	0.01MF		50V
C39	1-101-001-00	CERAMIC	0.001MF		50V
C40	1-101-005-00	CERAMIC	0.022MF		50V
C44	1-102-973-00	CERAMIC	100PF	5%	50V
C101	1-123-356-00	ELECT	10MF	20%	16V
C102	1-102-978-00	CERAMIC	220PF	5%	50V
C103	1-101-884-00	CERAMIC	56PF	5%	50V
C104	1-123-356-00	ELECT	10MF	20%	16V
C105	1-102-973-00	CERAMIC	100PF	5%	50V
C106	1-123-308-00	ELECT	220MF	20%	6.3V
C107	1-102-973-00	CERAMIC	100PF	5%	50V
*1 C108	1-102-807-00	CERAMIC	5PF	1PF	50V
C108	1-102-808-00	CERAMIC	6PF	1PF	50V
C108	1-102-944-00	CERAMIC	7PF	1PF	50V
C108	1-102-945-00	CERAMIC	8PF	1PF	50V
C108	1-102-946-00	CERAMIC	9PF	1PF	50V
C108	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C108	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C108	1-102-947-00	CERAMIC	10PF	5%	50V
CF1	1-527-795-71	FILTER, CERAMIC			
CFZ1	1-403-163-00	CERAMIC FILTER			
CT1-4 CV1-4	1-151-372-00	CAP, TUNING, POLYETHYLENE			
D1	8-719-815-55	DIODE 1S1555			
D2	8-719-815-55	DIODE 1S1555			
D3	⚠8-719-200-02	DIODE 10E2			
D4	⚠8-719-200-02	DIODE 10E2			
D5	8-719-815-55	DIODE 1S1555			
D101	8-719-151-07	DIODE RD5.1E-B			
D102	8-719-815-55	(USED ONLY IN101 1S MSM5550RSK) ...DIODE 1S1555			
FL	1-519-271-00	INDICATOR TUBE, FLUORESCENT			
IC1	1-806-474-11	IC LM1868N			
IC101	1-806-242-11	IC MSM5550IRS (LSI)			
IC101	8-759-955-52	IC MSM5550RSK			
L1	*1-420-856-00	COIL, FM RF			
L2	*1-409-293-00	COIL, AIR CORE			

*1 See Note on page 4 for C108 replacement.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L3	1-406-214-11	(Italy)...COIL, FM OSCILLATION
L3	*1-425-795-00	(US,Canadian,AEP,E1/2,AUS) ...COIL, HIGH FREQ TRANSFORMER (FM)
L4	1-401-993-00	ANTENNA, FERRITE-ROD (MW)
L5	1-406-028-00	COIL, OSC (MW)
L101	1-408-096-00	MICRO INDUCTOR 470UH
PT1	⚠1-446-346-00	(US,E2).....TRANSFORMER, POWER
PT1	⚠1-446-486-00	(AEP,Italy)...TRANSFORMER, POWER
PT1	⚠1-446-511-00	(AUS).....TRANSFORMER, POWER
PT1	⚠1-447-355-00	(E1).....TRANSFORMER, POWER
*2PT1	⚠X-3888-201-1	(Canadian)....TRANSFORMER, POWER
Q1	8-729-167-42	TRANSISTOR 2SC1674
Q2	8-729-671-13	TRANSISTOR 2SC710-13
Q3	8-729-100-13	TRANSISTOR 2SC2001
Q4	8-729-100-13	TRANSISTOR 2SC2001
R1	1-247-719-11	CARBON 3.3K 5% 1/4W
R2	1-246-533-00	CARBON 330K 5% 1/4W
R3	1-247-713-11	CARBON 1K 5% 1/4W
R4	1-247-710-11	CARBON 560 5% 1/4W
R5	1-247-688-11	CARBON 10 5% 1/4W
R6	1-247-721-11	CARBON 4.7K 5% 1/4W
R7	1-247-149-00	CARBON 5.6K 5% 1/4W
R8	1-247-706-11	CARBON 330 5% 1/4W
R9	1-247-151-00	CARBON 6.8K 5% 1/4W
R10	1-247-719-11	CARBON 3.3K 5% 1/4W
R11	1-249-459-11	CARBON 12K 5% 1/4W
R12	1-249-459-11	CARBON 12K 5% 1/4W
R13	1-246-529-00	CARBON 220K 5% 1/4W
R14	1-249-460-11	CARBON 15K 5% 1/4W
R15	1-249-460-11	CARBON 15K 5% 1/4W
R16	1-247-725-11	CARBON 10K 5% 1/4W
R17	1-247-719-11	CARBON 3.3K 5% 1/4W
R18	1-246-533-00	CARBON 330K 5% 1/4W
R19	1-247-726-11	CARBON 33K 5% 1/4W
R20	1-247-696-11	CARBON 47 5% 1/4W
R22	1-247-708-11	CARBON 470 5% 1/4W
R23	1-247-719-11	CARBON 3.3K 5% 1/4W
R24	1-247-704-11	CARBON 220 5% 1/4W
R25	⚠1-202-723-11	(Canadian)..RES, SOLID 2.2M 1/2W
R101	1-247-711-11	CARBON 680 5% 1/4W
R102	1-246-529-00	CARBON 220K 5% 1/4W
R103	1-246-527-00	CARBON 180K 5% 1/4W
R104	1-249-469-11	CARBON 100K 5% 1/4W
R105	1-247-721-11	CARBON 4.7K 5% 1/4W
R106	1-247-725-11	CARBON 10K 5% 1/4W
R107	1-213-128-00	METAL OXIDE 56 5% 1W F
R108	1-249-469-11	CARBON 100K 5% 1/4W

*2 This part includes not only power transformer and two screws but also bracket which is not necessary for ICF-C10W.
So when installing, remove the bracket.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV1	1-226-824-00	RES, ADJ, CARBON 20K
S1	1-552-370-00	SWITCH, SLIDE
S2	1-552-370-00	SWITCH, SLIDE
S3	1-552-370-00	(E1)...SWITCH, SLIDE
S901	⚠1-554-192-00	(E1)...SWITCH, SLIDE
S101	CONSISTED OF 7 8 9 10 IN GENERAL SECTION	
S102-S106	CONSISTED OF 21 15 IN GENERAL SECTION	
SP	1-503-082-00	SPEAKER
T1	1-403-872-00	I.F.T CONVERTER FM (SMALL TYPE)
T2	1-404-249-00	COIL, FM DETECTOR
T3	1-404-408-00	COIL, DETECTOR IFT

ACCESSORY & PACKING MATERIAL

Part No.	Description
*3-701-999-00	LABEL, SERIAL NUMBER
3-703-390-01	(US)....INSTRUCTION
3-703-920-01	(RED).....LABEL, COLOR
3-703-921-01	(SILVER)...LABEL, COLOR
3-703-923-01	(WHITE)....LABEL, COLOR
3-985-612-00	(US,E1,Canadian,AEP,E2,Italy)...CUSHION
3-985-622-21	MAT, MIRROR, PROTECTION SHEET
3-985-611-11	(US,Canadian)...INDIVIDUAL CARTON
3-985-620-00	(E1/2,AUS).....INDIVIDUAL CARTON
3-985-623-00	(AEP,Italy).....INDIVIDUAL CARTON
3-985-655-01	LABEL, C/C
3-995-928-11	(AEP,Italy).....MANUAL, INSTRUCTION
3-995-928-21	(US,Canadian)...MANUAL, INSTRUCTION
3-995-928-31	(Canadian).....MANUAL, INSTRUCTION
3-995-928-51	(E1/2,AUS).....MANUAL, INSTRUCTION
3-995-928-61	(Italy).....MANUAL, INSTRUCTION

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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